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HAMILTON COUNTY, INDIANA
JENNIFER J HAYDEN
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ORDINANCE 27.00

ORDINANCE 05-31

AN ORDINANCE TO AMEND ORDINANCE #62-12-95 TO ESTABLISH OVERLAY ZONE DISTRICTS AND ASSOCIATED LAND USE REGULATIONS FOR WELLHEAD PROTECTION

WHEREAS, the safety and potability of the community's water supply requires that lands near wellfields used to supply water for public purposes be subject to land use controls designed to prevent site development that is injurious to the public water supply; and

WHEREAS, commercial and industrial uses, if unregulated, have an immediate probability of permitting the introduction of toxic substances into the water supply; and

WHEREAS, local water utilities, in compliance with Indiana Department of Environmental Management mandates for community public water systems, are presently establishing wellfield protection programs as a first step towards protecting their public water supply wellfields; and

WHEREAS, all public water supplies within the Town of Westfield and its zoning jurisdiction are totally dependent on groundwater as the source for public water supplies; and

WHEREAS, future development in and around the Town of Westfield is dependent on the availability of a safe and dependable supply of drinking water;

NOW, THEREFORE BE IT ORDAINED by the Town Council of the Town of Westfield, Hamilton County, Indiana, meeting in regular session as follows:

Section 1. The Unified Development Ordinance of the Town of Westfield is hereby amended to include a new Chapter 5, in Ordinance WC-16-05 which reads as follows:

Section 2. Wellhead Protection District (WPD)

A. Purpose

The following requirements apply to all land within the Wellhead Protection Zones, as defined in Section 3, with the exceptions of single and multi-family residential land uses connected to municipal sanitary and storm sewers. After the effective date of this ordinance:

No building, structure, premises, or part thereof shall be constructed, erected, enlarged, extended, or relocated except in conformity with these regulations and for uses permitted by this ordinance and until the proposed site and land use description has been filed with and

Ordinance 05-31 Wellhead Protection approved by the Director of Community Development and the Director of the Westfield Public Works Department (WPWD) or their designees.

Section 3. Establishment of Well head Protection Zones

For purposes of this ordinance, the following areas are designated as Wellfield Protection Zones:

Zone 1

The area contained within a one (1) year time-of-travel to a public water supply well or wellfield, as defined by a modeled delineation performed in compliance with 327 IAC 8-4.1; or

The areas within one thousand (1,000) feet of a public water supply well.

Zone 2

The area contained within a five (5) year time-of-travel to a public water supply well or wellfield, as defined by a modeled delineation performed in compliance with 327 IAC 8-4.1; or

The areas within three thousand (3,000) feet of a public water supply well.

Section 4. Site and Plan Review

- 1. **Development Plans Required** Unless otherwise exempted under Exemptions subsection 4.2, any proposed land use within a Wellhead Protection Zone must submit a Site and Development Plan, as described in subsection 4.4.
- 2. Exemptions The following are not required to submit site and development plans:
 - (a) Zone 1 Any land use, in the ordinary course of their business, that has, or will have, less than the threshold amount of one (1) gallon of liquids in the aggregate or six (6) pounds of water soluble solids; and
 - (b) Zone 2 Any land use, in the ordinary course of their business, that has, or will have, less than the threshold amount of one hundred (100) gallons of liquid in the aggregate or six hundred (600) pounds of water soluble solids in the aggregate.
 - (c) In determining thresholds, the following substances shall be exempted:
 - i. Reasonable quantities of substances used for routine building and yard maintenance stored inside a facility;
 - ii. Liquids required for normal operation of a motor vehicle in use in that vehicle;
 - iii. Substances contained within vehicles for bulk deliveries to the site;
 - iv. Beverages and food at restaurants, supermarkets, convenience stores, and other retail food establishments;
 - v. Uncontaminated public water supply water, groundwater and/or surface water;
 - vi. Substances, which are packaged in pre-sealed containers, sold at retail establishments;

- vii. Substances utilized for the production and treatment of public water supply; and viii. Substances, which due to their inherent chemical or physical properties, that are determined to pose no significant threat to groundwater quality.
- 3. Plan Review Property located within Zones 1 and 2 proposed for new construction or expansion of existing facilities shall prepare and submit a description of said construction or expansion and the new or expanded use of the property. The site description shall be submitted to the Westfield Planning and Westfield Public Works Departments for review and either approval, disapproval, or approval with conditions. The Westfield Planning and Westfield Public Works Departments may solicit comments from the Hamilton County Health Department, the Hamilton County Surveyor's Office, and/or the applicable water utility on the site and development plan.

In reviewing the site and land use description, the Westfield Planning and Westfield Public Works Departments shall assess whether the site and proposed land use:

- (a) Will prevent potential ground water contaminants associated with human activity from interfering with each community public water supply system's ability to produce drinking water that meets all applicable federal and State drinking water standards after undergoing conventional ground water treatment, as employed by the public water supply system. These treatment processes include, but are not limited to aeration, detention, pressure filtration, and disinfection;
- (b) Will not unreasonably endanger the quality of groundwater in a designated wellhead protection area. An unreasonable risk includes, but is not limited to, the inappropriate storage, handling, use and/or production of metals, inorganic compounds, volatile organic compounds, semi-volatile organic compounds or other substances listed in 40 CFR Part 355, or defined at Chapter 4 of the Hamilton County Code, "Hazardous Material Emergencies" (10-4-4-1) within a wellhead protection area; and
- (c) The site complies with the standards and prohibitions listed in Section E.
- 4. Plan Documentation and Supporting Information Said Site and Development Plans shall include the following:
 - i. A narrative report of the proposed site, including:
 - i. A narrative description of the site including any existing uses, setbacks, available sewage disposal facilities, and a brief history of the site (including any former uses, historical environmental concerns, abandoned wells, underground storage tanks, septic systems, etc.);
 - ii. Description of the proposed operations, including chemical/products used or generated, chemical/product storage area descriptions, waste generation quantities, equipment cleaning/maintenance procedures
 - iii. Methods and locations of receiving, handling, storing and shipping chemicals/products and wastes

- iv. Spill or release response measures and reporting
- v. Description of slopes near containment vessels and waste storage areas

ii. A Site Plan including:

- i. A Vicinity Map (USGS quadrangle preferred);
- ii. A site Map (drawn to scale) depicting:
 - All existing and proposed structures
 - Paved and non-paved areas
 - Utility lines (inside and outside structures) including sanitary sewers, storm sewers, storm retention ditches/basins/french drains/dry wells, etc. (both proposed and existing)
 - Floor drain locations and outlets
 - Chemical/product storage locations
 - Waste storage locations
 - Liquid transfer areas
 - Site surface water bodies (streams, rivers, ponds)
 - Underground Storage Tanks (and associated piping)
 - Aboveground Storage Tanks (and associated piping)
 - Slope and contours of finished grade at 2-foot intervals or less
 - Regulated Drains
 - Any and all easements
- iii. Proposed containment area detail drawings, including area, heights, materials, specifications, if applicable.

Section 5. Development Standards and Prohibitions

- 1. Except for single-family residences (with sewage flows under 750 gallons per day), all developments shall be connected to the Town of Westfield's sanitary sewers. Floor drains, if present, must be approved to be connected by the Westfield Public Works Department in order to be connected to sanitary sewers, or must routed to a temporary holding area for removal;
- 2. No surface impoundments, pits, ponds or lagoons shall be established except for:
 - Storm water detention and retention ponds; and
 - Recreation, landscaping, or public water supply purposes
- 3. In Zone 1, detention and retention ponds shall be constructed in a manner that provides an effective barrier to the migration of potential ground water contaminants into ground water, as demonstrated by sealing the bottom of the structure with clay or other approved low permeability material. These detention and retention ponds shall be designed and certified by a professional engineer licensed by the State of Indiana.
- 4. The following restrictions apply to new storage areas in Zone 1:

- (a) No above ground storage of liquid and/or petroleum of greater than one thousand (1000) gallons in aggregate;
- (b) No storage of water-soluble solids of more than six thousand (6000) pounds per container in any one (1) containment area;
- (c) No new underground storage tanks (USTs) are permitted
- 5. All above ground storage of liquids in excess of 40 gallons for more than 24 hours within Zones 1 and 2 must provide secondary containment which meets the following requirements:
 - Containment must be capable of containing one-hundred and ten percent (110%) of the volume of the tank or tanks:
 - Constructed to meet one of the following:
 - Designed to prevent and control the escape of the contaminant(s) into ground water for a minimum of 72 hours before removal; or
 - Designed and built with an outer shell and a space between the tank wall and outer shell that allows and includes interstitial monitoring
 - The secondary containment structure shall be properly maintained and shall be free of vegetation, cracks, open seams, open drains, siphons, or other openings that jeopardize the integrity of the structure; and
 - Secondary containment systems shall be designed so that the intrusion of precipitation is inhibited or that stormwater is removed to maintain system capacity.
- 6. In Zone 1, the following requirements apply to existing fuel dispensing facilities and associated underground storage tanks (USTs) which are to be replaced or upgraded:
 - (a) All USTs shall be double walled;
 - (b) All USTs shall include the following three methods of release detection:
 - Inventory control as defined in 40 CFR 280.43(a)
 - Monthly 0.2 in-tank leak test as defined in 40 CFR 280.43(d)
 - Interstitial monitoring of a double walled approved UST as defined by 40 CFR 280.43(g)
 - (c) Connected piping must include the following three methods of release detection:
 - Inventory control;
 - Continuous detection for 3 gallon per hour line leak, as specified in 40 CFR 280.44(a) except that automatic shutoff is required at 95% tank capacity; and
 - Double walled line which is continuously monitored to detect the presence of liquid in the interstitial space and provided an alarm as specified in 40 CFR 280.44c via 40 CFR 280.43g
- 7. In Zone 2, the requirements of 40 CFR Part 280 apply to all existing, registered USTs that are replaced or upgraded and USTs installed at new fuel dispensing facilities. In addition, the construction standards of 40 CFR Part 280, applicable to non-petroleum USTs, shall be applicable to the following in Zone 2:

- (a) Such a tank that is covered by State or Federal hazardous waste regulations; and
- (b) Heating oil tanks for on-site use.
- 8. All Class V Injection Wells (including but not limited to dry wells, large-capacity cesspools, motor vehicle waste disposal wells, or other injection wells as defined at 40 CFR 146) shall be prohibited with the exception of the following:
 - (a) Air conditioning return flow wells used to return to the supply aquifer the water used for heating or cooling in a heat pump, if non-contact;
 - (b) Cooling water return flow wells used to inject water previously used for cooling, if non-contact;
 - (c) Barrier recharge wells used to replenish the water in an aquifer or to improve ground water quality, provided the injected fluid does not contain potential ground water contaminants; and
 - (d) Wells associated with the recovery of geothermal energy for heating, aquaculture and production of electric power, if non-contact.
- 9. The transfer area for bulk delivery of liquids shall be required to accommodate and contain a release that occurs during loading and unloading of a tank as follows:
 - (a) The liquid transfer area shall be constructed in a manner to prevent a release in the transfer area from reaching the ground water; and
 - (b) The portion of the liquid transfer area intended to contain releases shall be maintained so that it is free of vegetation, cracks, open seams, open drains, siphons, or other openings that jeopardizes the integrity of the area.
- 10. No disposal of Solid Waste, as defined at 329 IAC 10-2-174, or other hazardous materials as defined at 40 CFR Part 355, or defined at Chapter 4 of the Hamilton County Code, "Hazardous Material Emergencies" (10-4-4-1) shall be permitted in either Zone 1 or Zone 2.
- 11. The following requirements apply to all excavation activities associated with the removal of sand and gravel materials:
 - (a) If the extraction of sand and gravel involves the removal of materials below the normal groundwater level, the work shall be performed by means of a dragline, floating dredge, or an alternative "wet" excavation method.
 - (b) There shall be no de-watering of sites utilized for sand and gravel extraction
 - (c) No form of solid waste (as defined at 329 IAC 10-2-174) or any other form of waste material of any kind, including but not limited to construction/demolition debris, shall be used on the site. Clean natural earth fill materials may be used without restriction as to origin or placement on-site.
 - (d) All fuels, oils, lubricants, hydraulic fluids, petroleum products, or other similar materials on site shall have appropriate secondary containment, as specified in subsection 5.5.

Section 6. Abandonment or Vacation of Wells or Wellfields

Any person that is required to abandon or vacate a well or wellfield within the Town of Westfield's municipal jurisdiction or Washington Township, must first apply to the Town of Westfield Public Works Department for a permit to do so. The property owner abandoning or vacating a well must follow Indiana Code 312 IAC13-10 to properly secure the well and wellfield.

Table 1
 Cross-reference of Development Standards and Prohibitions
 by Land Use and Zoning District

| | Zoning District | | |
|---|--|--|--|
| Land Use | Zoning District Zone 1 Zone 2 | | |
| | (One Year TOT) | Zone 2 | |
| Sanitary land | | (Five Year TOT) | |
| fills | Prohibited | Prohibited | |
| On-Site Sewage Disposal (Commercial Facilities) | Prohibited | Prohibited | |
| Sand and Gravel Mining | Allowed • Must use "wet" excavation" • Excavation can be filled only with clean fill | Allowed • Must use "wet" excavation" • Excavation can be filled only with clean fill | |
| Surface Impoundments (e.g., pits, ponds & lagoons) | Prohibited • Exceptions for stormwater, recreation, etc. | Prohibited • Exceptions for stormwater, | |
| Detention and | Allowed | recreation, etc. | |
| Retention Basins | 1 | No Restrictions | |
| New ASTs (>1,000 | TIABLE DC TITLED | | |
| gallons) | Prohibited | Allowed • Must have secondary containment at 110% of volume | |
| New ASTs (<1,000 gallons) | Allowed | Allowed | |
| • | • Must have secondary containment at 110% of volume | • Must have secondary containment at 110% of volume | |
| Existing ASTs | Allowed • Must have secondary containment at 110% of volume | Allowed • Must have secondary containment at 110% of volume | |
| Storage of Water | Prohibited | Allowed | |
| Soluble Solids | (In Excess of 6,000 lbs) | must prevent release to ground, and be appropriately maintained | |
| New USTs | Prohibited | Allowed • Must meet all | |

| | Zoning District | | |
|---|---|--|--|
| Land Use | Zone 1 | Zone 2 | |
| | (One Year TOT) | (Five Year TOT) | |
| | | requirements of 40 CFR Part 280 | |
| Existing USTs | Allowed | Allowed | |
| | Must be double-walled Must include leak detection (40 CFR 280.43) Must have release detection on connection | • Must meet all requirements of 40 CFR Part 280 | |
| | piping (40 CFR 240.44) | | |
| Class 5 Injection Wells (e.g., dry wells) | Prohibited | Prohibited | |
| Liquid Transfer Areas | Allowed • Must prevent release to ground, and • Must be appropriately maintained | Allowed Must prevent release to ground, and Must be appropriately maintained | |

ADOPTED AND PASSED THIS <u>/4</u> DAY OF <u>NOV</u> 2005, BY THE WESTFIELD TOWN COUNCIL, HAMILTON COUNTY, INDIANA.

WESTFIELD TOWN COUNCIL

| Voting For | Voting Against | <u>Abstain</u> | | |
|---|---------------------|---------------------|--|--|
| Jana Golinte | <u></u> | | | |
| Teresa Otis Skelton | Teresa Otis Skelton | Teresa Otis Skelton | | |
| Jack Hart | | | | |
| Jack Hart | Jack Hart | Jack Hart | | |
| | | | | |
| David Mikesell | David Mikesell | David Mikesell | | |
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| Bots Smith | Bob Smith | Bob Smith | | |
| Gold Memas | | | | |
| Ron Thomas | Ron Thomas | Ron Thomas | | |
| ATTEST: | | | | |
| Cirky Ges | said | | | |
| Clerk-Treasur ∉ r, Cindy Gossard | | | | |

Prepared by: Bruce Hauk, WPW Director